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(54) Title: USE OF PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR GAMMA (PPARY) AND/OR RETINOIC ACID RECEPTOR (RXR) AGONISTS TO INHIBIT PLATELET FUNCTIONS

(57) Abstract: Methods of inhibiting mammalian platelet release of CD40 ligand, thromboxanes, or prostaglandin E2, or surface expression of CD40 ligand that involve contacting mammalian platelets with an effective amount of a PPARy agonist, an RXR agonist, or a combination thereof. As a consequence of inhibiting CD40 ligand and thromboxane release, the present invention allows for inhibition of thrombus fon-nation by (or clotting activities of) activated platelets, as well as treating or preventing CD40 ligand-mediated conditions and/or thromboxane-mediated conditions. Use of PPARy agonist, RXR agonist, and/or inducers of PPARy agonist in preparing a stored blood product, and for diagnostic testing of patient samples is also disclosed.